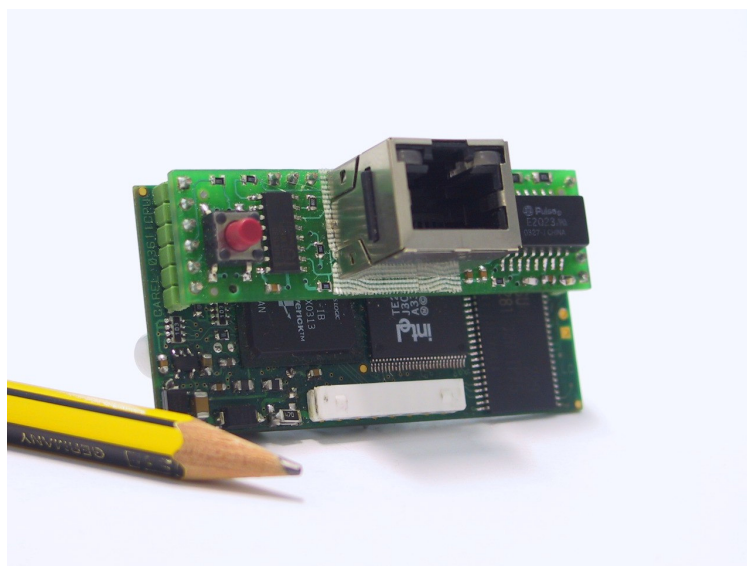


pCOWeb - New Smart Card for pCO Sistema controllers



Overview

This new card will allow the connection of all the new pCO Sistema controllers (pCO2, pCO1, pCOXS) with the most important protocols in the HVAC world working on the Ethernet and RS485 electrical standards.

The new interface card will be an add-on card to be inserted into the usual serial slot for supervisory cards on the pCO controllers and will be available in 2 models. One having an Ethernet interface and the other with an RS485 interface.

Ethernet interface

The following protocols will be implemented:

BACnet Ethernet,

BACnet over IP

SNMP v1/v2c(Simple Network Management Protocol)

SNMP will be used by the pCO to send its network variables to a supervisor (SNMP manager). SNMP Traps (alarms) are managed.

DHCP (Dynamic Host Configuration Protocol)

The Dynamic Host Configuration Protocol (DHCP) is an Internet protocol for automating the configuration of devices that use TCP/IP. Thus when the pCO will be connected to a network having a DHCP server it will get automatically its IP configuration parameters (IP and netmask addresses).

HTTP (Hyper Text Transfer Protocol)

HTTP is the protocol used for document exchange in the World-Wide-Web.

Thanks to this protocol and to its web-server features, the new card will allow the pCO to be connected to the Internet; you will get information from remote using a standard browser like "Internet Explorer". The card will "serve" web pages to the browser describing pCO's behaviour. Pages can be easily developed and downloaded into the card by the user itself.

Memory available for user Web pages is around 4MB.

FTP (File Transfer Protocol)

FTP is used to transfer (copy) files to and from devices on the Internet.

It will allow to download customized web pages (and other configuration files) into the card.

RS485 interface

This card differs from the previous one only for the electrical interface towards the external networks: RS485 instead of Ethernet.

It will be used to implement **BACnet MS/TP** (Master Slave/Token Passing) that is BACnet over RS485 medium